

BASF Aktiengesellschaft

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**Abstract**

The invention relates to a novel structured catalyst bed which optionally comprises at least one part bed comprising at least one catalytically active mixture of oxides of the main group metals and transition metals and additionally comprises at least one catalytically active part bed comprising at least silver, at least one alkali metal and a porous support material and finally and necessarily at least one catalytically active part bed comprising at least one alkali metal phosphate and at least one sheet silicate.